



Winston H. Hickox
Agency Secretary

Air Resources Board

Alan C. Lloyd, Ph.D.
Chairman

1001 I Street • P.O. Box 2815 • Sacramento, California 95812 • www.arb.ca.gov



Gray Davis
Governor

June 3, 2002

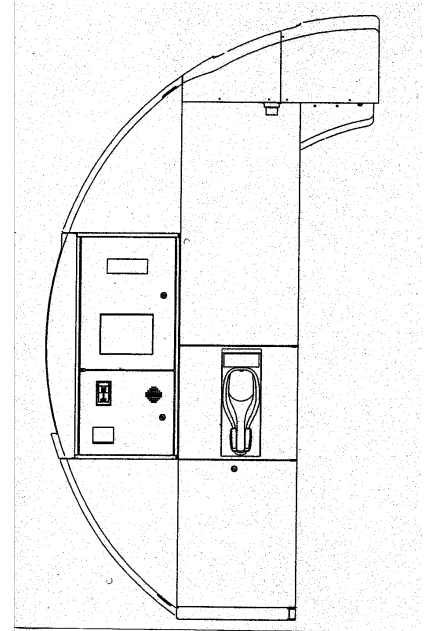
#02-08

Mr. Rich Tucker
Senior Approval Engineer
Tokheim Corporation
P.O. Box 360
Fort Wayne, Indiana 46801

Dear Mr. Tucker:

Thank you for your letter dated March 11, 2002, requesting California Air Resources Board (CARB) approval of a newly designed "Harmony J Series" multi-product fuel dispenser. Specifically, your letter requested CARB approval for use with both balance and vacuum assisted vapor recovery configurations. In addition to your letter, you provided agency approval letters, engineering drawings, test data, photographs, and installation instructions. The Harmony series fuel dispenser is unusual in appearance due to its semi-circular shape and its ability to integrate with a canopy column.

For vapor return piping located within a balance system dispenser, the July 25, 2001, Certification Procedure for Vapor Recovery Systems (CP-201), allows a maximum dynamic pressure drop of 0.08 inches of water column at 60 cubic feet per hour (CFH). Although this standard does not become effective until April 1, 2003, a balance style Harmony dispenser provided by Tokheim was subjected to pressure drop testing to evaluate its compliance with this future standard. The average back pressure at 60 CFH was measured at less than 0.04 inches of water column, less than half the allowable limit. The compatibility of the dispenser with numerous nozzles was also evaluated by comparing the leak rate of the nozzle when inserted and when removed from the dispenser. In addition, CARB staff has reviewed engineering drawings and test data submitted by Tokheim regarding the "Max Vac" vacuum-assisted configuration of the Harmony Series fuel dispenser.



Based on testing conducted by CARB and information provided by Tokheim we find the use of the Harmony Series fuel dispenser, when installed in accordance with the manufacturer's recommended instructions, will not adversely affect the vapor recovery systems on which they are installed. Therefore, the piping configuration of the Tokheim

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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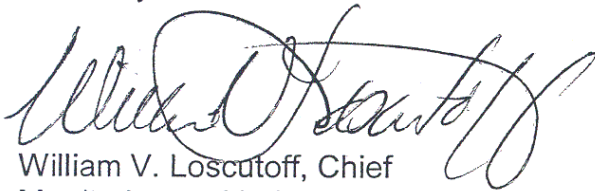
Harmony Series fuel dispenser is approved for use with the currently certified (pre-EVR) balance and "Max Vac" vapor recovery systems.

As required by California State Law (H&SC Section 41955), the approval of three State agencies are a precondition to certification by CARB. The appropriate letters of approval have been received and are listed as follows:

1. Department of Food and Agriculture
Division of Measurement Standards
March 19, 2002
2. Department of Industrial Relations
Division of Occupational Safety and Health
February 8, 2002
3. Department of Forestry and Fire Protection
Office of the State Fire Marshall
December 10, 2001

If you have questions or need further information, please contact Lou Dinkler at (916) 445-9335 or via email at ldinkler@arb.ca.gov or Laura McKinney at (916) 327-0900 or via email at lmckinne@arb.ca.gov.

Sincerely,



William V. Loscutt, Chief
Monitoring and Laboratory Division

cc: Ms. Rosa Salcedo
San Diego County Air Pollution Control District

Mr. Dan Reiswig
Department of Food and Agriculture

Mr. Larry McCune
Department of Industrial Relations

Mr. Marc Yopez
Department of Forestry and Fire Protection